

IN THE CLAIMS:

Please amend the claims as follows:

1. (Currently Amended) A MEMS device including a rotor including an aperture, a shaft extending through the aperture, and a stator attached to the shaft, the device including one or more grooves located to form at least one air bearing between the rotor and at least one of the stator and the shaft upon rotation of the rotor around the shaft;

said one or more grooves generating an air flow in a gap between the rotor and the shaft forming said air bearing;

said shaft including a frustoconical section opposing a frustoconical surface of the rotor, wherein the air bearing is formed between the frustoconical section and the frustoconical surface upon rotation of the rotor,

said frustoconical surface of the shaft being formed on a wide portion of the shaft located within a chamber included in a substrate,

said rotor including two joined substrates defining said chamber between them;

said two substrates of the rotor sandwiching a metal layer.

2. (Original) A device according to claim 1 in which at least some of the grooves are formed on the rotor surrounding the aperture, to generate a positive pressure between the rotor and the stator to urge the rotor and the stator apart.

3. (Cancelled)

4. (Currently Amended) A device according to claim ~~[[3]]~~ 1 in which the gap between the rotor and the shaft includes at least three circumferentially spaced constrictions, whereby air bearings are generated at the constrictions upon rotation of the rotor and urge a central axis of the rotor towards a rotational axis of the shaft.

5-8 (Canceled)

9. (Previously Presented) A device according to claim 1 in which the rotor includes recesses facing the stator and including yoke material and magnetic material, the stator having a surface including conductive loops.

10-14. (Canceled)

15. (Previously Presented) A device according to claim 1 which is used in a gyroscope, a HDD motor, a DVD motor, a zoom lens motor, a pump, or a fan.